Notice of Completeness Application for Shipboard Technology Evaluation Program (STEP)			
Documents Required	Completed: Yes-No-NA	Explanation of Deficiency	
1.0 Letter of Commitment			
2.0 Environmental Compliance			
2.1 Conditioning of treated water prior to discharge, and assessment of discharge water			
2.2 Management of treatment waste streams			
2.3 Literature Search			
2.4 Documentation			
3.0 Documentation of prior experiments demonstrating efficacy of the Applicant's treatment system			
3.1 Laboratory experiments (bench scale)			
3.2 Shore side experiments (intermediate scale)			
3.3 Onboard experiments (intermediate or full scale)			
3.4 Data submission requirements			

Notice of Completeness (page 2) Application for Shipboard Technology Evaluation Program (STEP)		
Documents Required	Completed: Yes-No-NA	Explanation of Deficiency
4.0 Study Plan		
4.1 Format Requirements		
4.2 Test Organization and Staff		
4.2.1 Ship owner and operator		
4.2.2 System vendor(s)		
4.2.3 Test team and affiliations		
4.2.3.1 Management		
4.2.3.2 Technical staff		
4.2.3.3 Laboratories		
4.2.4 Testing Flow Chart		
4.2.5 Public funding sources		

Notice of Completeness (page 3) Application for Shipboard Technology Evaluation Program (STEP)			
Documents Required	Completed: Yes-No-NA	Explanation of Deficiency	
4.3 Description of Vessel and Ballast			
Water Treatment System			
4.3.1 Test Ship, Location, and Conditions			
4.3.2 Treatment System Overview			
4.3.3 Treatment Stages			
4.3.3.1 Stage #1			
4.3.3.2 Stage #2			
4.3.3.3 Stage #3			
4.3.4 Powering and other			
engineering matters			
4.3.5 Controls and monitoring			

Notice of Completeness (page 4) Application for Shipboard Technology Evaluation Program (STEP)				
Documents Required		mpletes-No-l		Explanation of Deficiency
4.4 Experimental Design and				
Protocols				
4.4.1 General Description				
4.4.2 Goals for treatment				
effectiveness by target taxa				
4.4.2.1 Treatment effectiveness				
on target taxa				
4.4.2.2 Comparison with ballast				
water exchange				
effectiveness				
4.4.3 Experimental Design				
4.4.3.1 Sample collection for				
each treatment and				
control.				
4.4.3.2 Description of the				
number of test runs.				
4.4.3.3 Range of operational				
and environmental				
conditions				
4.4.3.4 Measurement of treatment system and ballast water exchange performance				
4.4.3.5 Experimental comparison of treatment system to BWE				
4.4.3.6 Reporting procedures.				

Notice of Completeness (page 5) Application for Shipboard Technology Evaluation Program (STEP)			
Documents Required	Completed: Yes-No-NA	Explanation of Deficiency	
4.4.4 Sample collection and			
analytical protocols, including			
standard operating procedures			
4.4.4.1 Sample collection and			
handling			
4.4.4.2 Laboratory/field measurement procedures			
4.4.4.3 Sample archives			
4.4.5 Quality assurance and control			
for sampling and analysis			
4.4.6 Schedule and milestones			
4.4.7 Review Panel observation of primary tests			
4.4.8 Other measures of success			

Notice of Completeness (page 6) Application for Shipboard Technology Evaluation Program (STEP)			
Documents Required	Completed: Yes-No-NA	Explanation of Deficiency	
4.5 Engineering and Vessel			
Operations Matters			
4.5.1 Treatment system configuration			
4.5.1.1 Engineering Documentation Package			
4.5.1.2 Mechanical Layout Drawings, PFDs, and P&IDs			
4.5.2 Ship operations interface and crew labor impacts			
4.5.3 Maintenance and reliability			
4.5.4 Classification society approval			
4.6 Human Health and Safety			
4.6.1 Exposure to treatment system media			
4.6.2 Safety impacts of treatment system			
4.7 Long Term Treatment System Performance Monitoring			
4.7.1 Treatment performance			
4.7.2 Engineering performance			
4.7.3 Reporting requirements			